Subject: [PATCH 2.6.25 3/3] ipv4: last default route is a fib table property
Posted by den on Fri, 07 Dec 2007 16:11:13 GMT
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ipv4: last default route is a fib table property

Signed-off-by: Denis V. Lunev <den@openvz.org>
Acked-by: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
---
 include/net/ip_fib.h | 1 +
 net/ipv4/fib_hash.c | 16 ++++++++--------
 net/ipv4/fib_trie.c | 18 ++++++++++--------
 3 files changed, 18 insertions(+), 17 deletions(-)

```
diff --git a/include/net/ip_fib.h b/include/net/ip_fib.h
index 690fb4d..d70b9b4 100644
--- a/include/net/ip_fib.h
+++ b/include/net/ip_fib.h
@@ -141,6 +141,7 @@ struct fib_table {
  struct hlist_node tb_hlist;
  u32  tb_id;
  unsigned tb_stamp;
+ int  tb_default;
  int  (*tb_lookup)(struct fib_table *tb, const struct flowi *flp, struct fib_result *res);
  int  (*tb_insert)(struct fib_table *, struct fib_config *);
  int  (*tb_delete)(struct fib_table *, struct fib_config *);
diff --git a/net/ipv4/fib_hash.c b/net/ipv4/fib_hash.c
index a52b570..481de47 100644
--- a/net/ipv4/fib_hash.c
+++ b/net/ipv4/fib_hash.c
@@ -272,8 +272,6 @@ out:
  return err;
 }

-static int fn_hash_last_dflt=-1;
-
 static void
 fn_hash_select_default(struct fib_table *tb, const struct flowi *flp, struct fib_result *res)
 {
@@ -314,9 +312,9 @@ fn_hash_select_default(struct fib_table *tb, const struct flowi *flp, struct
fib
     if (next_fi != res->fi)
      break;
    } else if (!fib_detect_death(fi, order, &last_resort,
-           &last_idx, fn_hash_last_dflt)) {
+      &last_idx, tb->tb_default)) {
     fib_result_assign(res, fi);
-    fn_hash_last_dflt = order;
```

```
+    tb->tb_default = order;
     goto out;
    }
    fi = next_fi;
@@ -325,19 +323,20 @@ fn_hash_select_default(struct fib_table *tb, const struct flowi *flp,
struct fib
  }

  if (order <= 0 || fi == NULL) {
-  fn_hash_last_dflt = -1;
+  tb->tb_default = -1;
   goto out;
  }

- if (!fib_detect_death(fi, order, &last_resort, &last_idx, fn_hash_last_dflt)) {
+ if (!fib_detect_death(fi, order, &last_resort, &last_idx,
+     tb->tb_default)) {
   fib_result_assign(res, fi);
-  fn_hash_last_dflt = order;
+  tb->tb_default = order;
   goto out;
  }

  if (last_idx >= 0)
   fib_result_assign(res, last_resort);
- fn_hash_last_dflt = last_idx;
+ tb->tb_default = last_idx;
 out:
  read_unlock(&fib_hash_lock);
 }
@@ -772,6 +771,7 @@ struct fib_table * __init fib_hash_init(u32 id)
   return NULL;

  tb->tb_id = id;
+ tb->tb_default = -1;
  tb->tb_lookup = fn_hash_lookup;
  tb->tb_insert = fn_hash_insert;
  tb->tb_delete = fn_hash_delete;
diff --git a/net/ipv4/fib_trie.c b/net/ipv4/fib_trie.c
index 29a06af..850165a 100644
--- a/net/ipv4/fib_trie.c
+++ b/net/ipv4/fib_trie.c
@@ -1779,8 +1779,6 @@ static int fn_trie_flush(struct fib_table *tb)
  return found;
 }

-static int trie_last_dflt = -1;
-
```

```
 static void
 fn_trie_select_default(struct fib_table *tb, const struct flowi *flp, struct fib_result *res)
 {
@@ -1827,28 +1825,29 @@ fn_trie_select_default(struct fib_table *tb, const struct flowi *flp,
struct fib
    if (next_fi != res->fi)
     break;
   } else if (!fib_detect_death(fi, order, &last_resort,
-          &last_idx, trie_last_dflt)) {
+           &last_idx, tb->tb_default)) {
    fib_result_assign(res, fi);
-   trie_last_dflt = order;
+   tb->tb_default = order;
    goto out;
   }
   fi = next_fi;
   order++;
  }
  if (order <= 0 || fi == NULL) {
-  trie_last_dflt = -1;
+  tb->tb_default = -1;
   goto out;
  }

- if (!fib_detect_death(fi, order, &last_resort, &last_idx, trie_last_dflt)) {
+ if (!fib_detect_death(fi, order, &last_resort, &last_idx,
+     tb->tb_default)) {
   fib_result_assign(res, fi);
-  trie_last_dflt = order;
+  tb->tb_default = order;
   goto out;
  }
  if (last_idx >= 0)
   fib_result_assign(res, last_resort);
- trie_last_dflt = last_idx;
- out:;
+ tb->tb_default = last_idx;
+out:
  rcu_read_unlock();
 }

@@ -1975,6 +1974,7 @@ struct fib_table * __init fib_hash_init(u32 id)
   return NULL;

  tb->tb_id = id;
+ tb->tb_default = -1;
  tb->tb_lookup = fn_trie_lookup;
  tb->tb_insert = fn_trie_insert;
```

tb->tb_delete = fn_trie_delete;
--
1.5.3.rc5

Subject: Re: [PATCH 2.6.25 3/3] ipv4: last default route is a fib table property
Posted by davem on Sat, 08 Dec 2007 08:32:31 GMT
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From: "Denis V. Lunev" <den@openvz.org>
Date: Fri, 7 Dec 2007 19:11:18 +0300

> ipv4: last default route is a fib table property
>
> Signed-off-by: Denis V. Lunev <den@openvz.org>
> Acked-by: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>

Applied, thanks!
